

### GENERAL NOTE - STRAINERS PRODUCTION

Permanent filter, straight line, suitable for filtering fluids in either the liquid state (water, seawater, petroleum and its derivatives) or the gaseous state (gas, air, chemical products) through a perforated plate filter element placed perpendicular to the direction of flow.

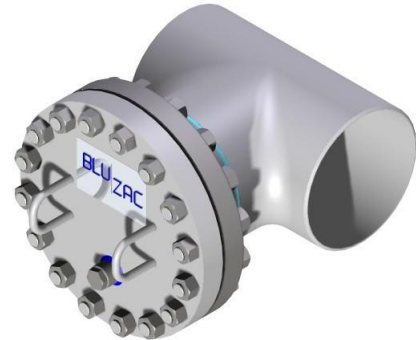
Obtained from an extruded, it ensures a large surface area for flow and thus offers a high filtration capacity with a low loss of capacity even at high speeds. The standard equipment includes a screen suitable for high pressures, which is easy to maintain and replace and capable of filtration of more than 200% of the inlet area.

$$\text{OPEN AREA RATIO} = \frac{100 \times \text{Mesh Open Area} \times \text{Screen Area}}{\text{Inlet area}}$$

(The calculations are based on the filtering percentage of the mesh's surface area only.)

All of Blu Zac products have been designed to satisfy the requests and specific requirements of the customer, including high pressure applications.


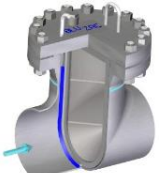
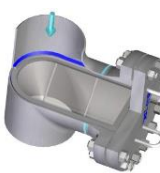
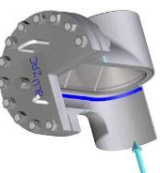

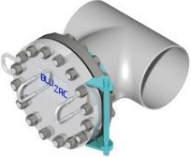


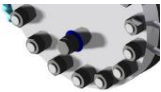


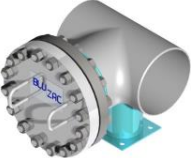
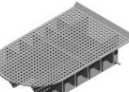


Designed and fabricated to ASME VIII Div.1 as standard but can also be supplied to other pressure vessel codes. I.e. ASME B31.3 etc.

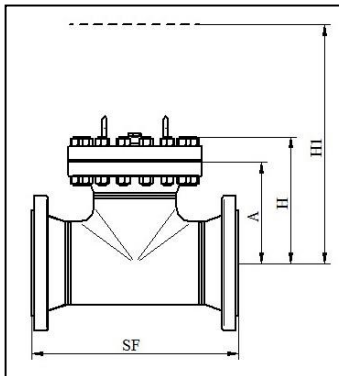
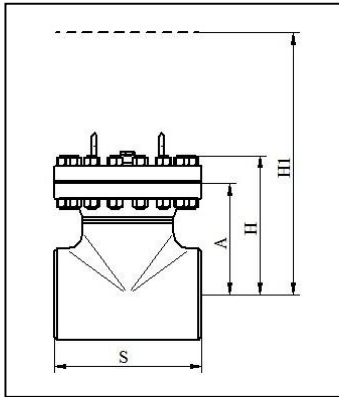


SIZES
2" - 3" - 4" - 6" - 8" - 10" - 12" - 16" - 18" - 20" - 24"

CONNECTIONS		
Buttweld	BW	ANSI B16.25
Flanged	FLG	ANSI B16.5

### GENERAL NOTE - STRAINERS STANDARD PRODUCTION

<b>INSTALLATION</b>	 Correct	 Incorrect	 Correct	 Incorrect
<b>COVER</b>	 Bolted Cover	 Bolted Cover with Hinge	 Bolted Cover with Davit	 Clamp Connectors
<b>DRAIN</b>	 Drain NPT	 Drain Flanged+Blind		
<b>SUPPORT</b>	 Without support	 With support		
<b>BASKET</b>	 Basket Plane	 Basket type V	 Basket type W	



Size	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	
<b>S</b>	128	172	210	286	356	432	508	558	610	686	762	864	
<b>SF (mm)</b>	15ORF	259	316	366	468	563	639	741	816	868	969	1055	1173
	30ORF	272	335	385	487	582	671	772	848	906	1008	1090	1205
	60ORF	291	354	430	538	640	754	836	905	982	1071	1160	1287
	90ORF	349	392	455	582	697	817	925	1000	1059	1160	1274	1465
	150ORF	348	424	474	646	798	957	1090	1172	1249	1357	1490	1694
	250ORF	399	525	608	849	1008	1287	1452	no	no	no	no	no
	15ORJ	269	325	376	477	573	649	750	826	878	979	1065	1182
	30ORJ	284	347	398	499	595	684	785	860	919	1020	1106	1224
	60ORJ	294	357	433	541	643	757	839	908	985	1074	1166	1297
	90ORJ	352	395	458	585	700	820	928	1010	1068	1173	1287	1484
150ORJ	351	427	477	652	808	966	1106	1191	1271	1379	1512	1722	
250ORJ	402	532	617	862	1024	1309	1474	no	no	no	no	no	
<b>A (mm)</b>	15ORF	130	158	183	234	282	320	370	408	434	485	528	586
	30ORF	136	167	193	243	291	336	386	424	453	504	545	602
	60ORF	145	177	215	269	320	377	418	453	491	536	580	644
	90ORF	174	196	228	291	348	409	462	500	529	580	637	733
	150ORF	174	212	237	323	399	478	545	586	625	679	745	847
	250ORF	199	263	304	425	504	644	726	no	no	no	no	no
	15ORJ	134	163	188	239	286	324	375	413	439	489	532	591
	30ORJ	142	174	199	250	297	342	393	430	459	510	553	612
	60ORJ	147	179	217	270	321	378	420	454	493	537	583	648
	90ORJ	176	198	229	293	350	410	464	505	534	586	643	742
150ORJ	176	213	239	326	404	483	553	595	636	690	756	861	
250ORJ	201	266	309	431	512	655	737	no	no	no	no	no	
<b>H (mm)</b>	15ORF	182	230	268	347	423	490	568	624	677	757	828	942
	30ORF	192	244	285	368	445	523	602	659	717	796	866	981
	60ORF	211	263	320	411	495	587	656	710	781	857	933	1060
	90ORF	246	288	339	441	531	625	713	774	831	920	1009	1187
	150ORF	252	314	358	500	610	733	841	907	984	1079	1187	1365
	250ORF	290	384	447	627	750	955	1082	no	no	no	no	no
	15ORJ	192	239	277	356	433	499	577	634	687	766	837	952
	30ORJ	205	256	298	380	458	536	615	672	730	809	882	1000
	60ORJ	214	266	323	414	498	590	659	713	784	860	939	1069
	90ORJ	249	291	342	444	534	628	716	783	841	933	1022	1206
150ORJ	255	317	361	506	620	742	857	926	1006	1101	1209	1393	
250ORJ	293	390	457	639	766	977	1104	no	no	no	no	no	
<b>H1 (mm)</b>	15ORF	326	412	488	643	789	919	1071	1179	1281	1434	1570	1789
	30ORF	339	431	507	662	808	951	1103	1210	1320	1472	1605	1821
	60ORF	358	450	551	713	866	1034	1167	1268	1396	1535	1675	1904
	90ORF	416	488	577	758	923	1097	1256	1363	1472	1624	1789	2082
	150ORF	415	520	596	821	1024	1237	1421	1534	1663	1821	2005	2310
	250ORF	466	621	729	1024	1234	1567	1783	no	no	no	no	no
	15ORJ	336	421	497	653	799	929	1081	1188	1291	1443	1580	1799
	30ORJ	352	443	519	675	821	964	1116	1223	1332	1484	1621	1840
	60ORJ	361	453	554	716	869	1037	1170	1271	1399	1538	1681	1913
	90ORJ	419	491	580	761	926	1100	1259	1372	1481	1637	1802	2101
150ORJ	418	523	599	827	1034	1246	1437	1553	1685	1844	2027	2339	
250ORJ	469	628	739	1037	1250	1589	1805	no	no	no	no	no	

DIMENSION TOLLERANCE		
SIZE TEE	DIMENSION*	
	S	SF & A H & H1
1/2" to 2.1/2"	± 3,2	± 5
3" to 4"	± 3,2	± 5
6" to 8"	± 3,2	± 5
10" to 18"	± 4,6	± 7
20" to 24"	± 4,6	± 7
26" to 30"	± 6	± 8
32" to 48"	± 9,6	± 12

\*S, SF, A, H and H1 are in millimeters (mm)

POS	DESCRIPTION	MATERIALS	MATERIALS	MATERIALS	MATERIALS	SPARES
1	Body	ASTM A234 WPB	ASTM A420 WPL6	ASTM A403 WP304	ASTM A403 WP316	
2	Blind Flange	ASTM A105	ASTM A350 LF2	ASTM A182 F304	ASTM A182 F316	
3	Basket	AISI 304 or 316	AISI 304 or 316	AISI 304 or 316	AISI 304 or 316	X
3A	Guide rods	ASTM A105	ASTM A350 LF2	ASTM A182 F304	ASTM A182 F316	
4	Gasket	SPW: F-Graphite W-316 IR-316 OR-CS	SPW: F-Graphite W-316 IR-316 OR-CS	SPW: F-Graphite W-316 IR-316 OR-CS	SPW: F-GraphiteW-316 IR-316 OR-CS	X
5	Nuts	ASTM A194 Gr.2H	ASTM A194 Gr.4	ASTM A194 Gr.8	ASTM A194 Gr.8	
6	Bolts	ASTM A193 B7	ASTM A320 L7	ASTM A193 B8	ASTM A193 B8	
7	Drain	ASTM A105	ASTM A350 LF2	ASTM A182 F304	ASTM A182 F316	
11	Handle	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	
12	Davit	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	
13	Hinge	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	
14	Support	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	

Note 1: Other Materials and Dimensions on Request

Note 2: Detail 12 and 13 are optional if required by client.

Note 3: When the Tee material is Stainless Steel, standard accessories Hinge, Davit and Support will be in Carbon Steel material;

#### HOW TO MAKE FACILITIES SERVICES

Usually, the maintenance of the filters should be done once a year or when the pressure drop exceeds the normally expected pressure drop.

Important: check system at least once a month and, if possible, undertake a quick cleaning.

#### HOW TO MAINTAIN:

1. Before starting, wear the required safety equipment and follow all plant safety procedures.
2. Stop the main line to make sure that no residues of dangerous waste fluid could be emitted.
3. Unscrew cover studs(6) and nuts(5), then remove the blind flange(3) and gasket(4).
4. Remove the basket(3), clean the block with compressed air or any other appropriate tools. Inspect thoroughly to check for any damage; if the basket is damaged or deformed, it must be replaced with a new one.
5. Thoroughly clean the inside of the vessel before inserting the filter basket.
6. Install the basket in the body(1).
7. Replace the gasket(4).
8. Reposition the blind flange (2), then screw the studs(6) and nuts(5) of the cover.
9. Slowly start the plant and check if there are any line losses.
10. Apply a label to the filter with the maintenance date.

#### ORDER CODE

i.e. FTEE 2" 150RF BW-XS WPB/F304 M3-O6 +DRAIN ¾" NPT

